

**AMENDMENTS TO THE CLAIMS  
PURSUANT TO WAIVER OF 37 CFR § 1.21**

1. (currently amended) An isolated nucleotide sequence ~~encoding at least~~ comprising a portion of the human alpha-7 neuronal nicotinic receptor, ~~wherein said sequence is selected from the group consisting of SEQ ID NOS:84-103.~~ set forth as nucleotides 1-392 of SEQ ID NO:94.

2 (previously canceled)

3. (original) The isolated nucleotide sequence of Claim 1, wherein said nucleotide sequence further comprises 5' and 3' flanking regions.

4. (original) The nucleotide sequence of Claim 1, wherein said nucleotide sequence further comprises intervening regions.

5. (original) A vector comprising a nucleotide sequence, wherein the nucleotide sequence comprises the nucleotide sequence of Claim 1.

6. (original) A host cell transformed with the vector of Claim 5.

7. (original) The host cell of Claim 6, wherein said cell is selected from the group consisting of bacteria, yeast, amphibian, and mammalian cells.

8. (currently amended) A first polynucleotide sequence comprising at least fifteen nucleotides, which hybridizes under stringent conditions to ~~at least a portion of~~ a second polynucleotide sequence ~~is selected from the polynucleotide sequences set forth in Claim 1,~~ wherein said stringent conditions comprise hybridization at 40°C in 5X Denharts, and two washes at 65°C in 0.1% SDS and 0.1X SSC.

9 - 15 (previously canceled)

16 - 25 (currently canceled)

26. (new) The nucleotide sequence of Claim 1, further comprising exon 1 of the human alpha 7 neuronal nicotinic receptor.

27. (new) The nucleotide sequence of Claim 17, further comprising the intron 1 splice donor of the human alpha 7 neuronal nicotinic receptor.

D<sup>4</sup> 28. (new) The nucleotide sequence of Claim 17, further comprising one or more exons of the human alpha 7 neuronal nicotinic receptor, selected from the group consisting of exon 2, exon 3, exon 4, exon 5, exon 6, exon 7, exon 8, exon 9 and exon 10.

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